

IA P10 Rec'd PCT/PTO 23 DEC 2005

Attorney Docket: 27098U

MAIL STOP PCT

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| U.S. Department Of Commerce, Patent And Trademark Office   |   | Date: December <u>23</u> , 2005   |
| Transmittal Letter To The United States Designated/Elected Office (DO/EO/US) Concerning A Filing Under 35 U.S.C. 371 |   | U.S. Application No.:<br>(if known: PCT No./Pat Assigned No.)<br><b>10/562137</b> |
| International Application No.:<br>PCT/EP2004/051307  | International Filing Date:<br>30 June 2004 (30.06.2004) | Priority Date Claimed:<br>30 June 2003 (30.06.2003) EP                            |
| Title of Invention: <b>PYRROLODIHYDROISOQUINOLINES AS PDE10 INHIBITORS</b>   |   |   |
| Applicants for DO/EO/US: VENNEMANN, Matthias; BAER, Thomas; BRAUNGER, Juergen  |   |   |

Applicant hereby submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
- ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
- ☒ This is an express request to begin national examination procedures (35 USC 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
- ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2)):
  - ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
  - ☐ has been communicated by the International Bureau.
  - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
- ☐ A English translation of the International Application as filed (35 U.S.C. 371(c)(2)).
- ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - ☐ are attached hereto (required only if not transmitted by the International Bureau).
  - ☐ have been communicated by the International Bureau.
  - ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - ☒ have not been made and will not be made.
- ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
- ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
- ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**ITEMS 10 to 19 BELOW CONCERN OTHER DOCUMENT(S) OR INFORMATION INCLUDED:**

- ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- ☒ A **FIRST** preliminary amendment.
- ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment
- ☐ A substitute specification.
- ☐ A change of power of attorney and/or address letter.
- ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter2 and 35 USC 1821 - 1825
- ☐ A second copy of the published international application under 35 USC 154(d)(4)
- ☐ A second copy of the English language translation of the international application under 35 USC 154(d)(4)
- ☒ Other items or information:  
TRANSMITTAL LETTER; APPLICATION DATA SHEET; INTERNATIONAL PUBLICATION NUMBER: WO 2005/003129 A1, WITH PCT/ISA/210 (INTERNATIONAL SEARCH REPORT); INTERNATIONAL PUBLICATION DATE: 13 JANUARY 2005 (13.01.2005), WHICH CONSISTS OF 120 PAGES: 1 PAGE FOR THE COVER SHEET, 97 PAGES OF TEXTUAL SPECIFICATION, 22 PAGES OF 20 CLAIMS, 0 SHEETS OF DRAWINGS; **PRELIMINARY AMENDMENT WITH APPENDICES A AND B TO BE EXAMINED**; EXECUTED DECLARATION AND POWER OF ATTORNEY; PCT/IB/308 (FIRST NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION); PCT/IB/308 (SECOND AND SUPPLEMENTAL NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION); PCT/IB/304 (NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT); PCT/RO/101 (PCT REQUEST); POSTCARD FOR EARLY NOTIFICATION OF THE SERIAL NUMBER REQUEST.

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| U.S. Application Number:<br>(if known): <b>10/562137</b> | International Application Number:<br>PCT/EP2004/051307 | Date: December <b>23</b> , 2005 |
|--|--|---------------------------------|

| The following fees are submitted:   | CALCULATIONS | PTO USE ONLY |
|---|--------------|--------------|
| 21. Basic National Fee ..... \$ 300.00  | \$ 300.00    |              |
| 22. Examination Fee<br>If International Preliminary Examination Report<br>prepared by USPTO and all claims satisfy<br>Provisions of PCT Article 33(1)-(4) ..... \$ 100.00<br>All other situations ..... \$ 200.00   | \$ 200.00    |              |
| 23. Search Fee (37 CFR 1.445(a)(2) has been paid on the<br>International Application to the USPTO<br>as an International Searching Authority ... \$ 100.00<br>International Search Report prepared<br>and provided to the Office ..... \$ 400.00<br>All other situations ..... \$ 500.00              | \$ 400.00    |              |
| <input checked="" type="checkbox"/> Additional fee for specification and drawings filed in<br>paper over 100 sheets (excluding Sequence listing or<br>computer program listing filed in an electronic medium).<br>The fee is \$ 250.00 for each additional 50 sheets of paper or<br>fraction thereof. | \$ 500.00    |              |
| ENTER APPROPRIATE BASIC FEE AMOUNT =  | \$ 1,400.00  |              |

|   |         |  |
|---|---------|--|
| Surcharge of \$130.00 for furnishing the oath or declaration<br>later than <u>20</u> months from the earliest claimed<br>priority date (37 CFR 1.492(e)). | \$ 0.00 |  |
|---|---------|--|

| CLAIMS   | NUMBER:<br>FILED | NUMBER:<br>EXTRA | RATE        |                           |    |
|--|------------------|------------------|-------------|---------------------------|----|
| TOTAL  | 18-20=           | 0                | X \$ 50.00  | \$ 0.00                   |    |
| INDEPENDENT  | 1-3=             | 0                | X \$ 200.00 | \$ 0.00                   |    |
| Multiple dependent claims(s)<br>(if applicable)  |                  |                  | + \$360.00  | \$ 0.00                   |    |
| TOTAL OF ABOVE CALCULATIONS =  |                  |                  |             | \$ 1,400.00               |    |
| Reduction by 2 for asserting small entity, if applicable.<br>(Note 37 CFR 1.9, 1.27, 1.28).  |                  |                  |             | \$ 0.00                   |    |
| SUBTOTAL =   |                  |                  |             | \$ 1,400.00               |    |
| Processing fee of \$130.00 for furnishing the English<br>translation later than <u>20</u> months from the<br>earliest claimed priority date (37 CFR 1.492(f)). +               |                  |                  |             | \$ 0.00                   |    |
| TOTAL NATIONAL FEE =   |                  |                  |             | \$ 1,400.00               |    |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)).<br>The assignment must be accompanied by an appropriate cover<br>sheet (37 CFR 3.28, 3.31). \$40.00 per property + |                  |                  |             | \$ 0.00                   |    |
| TOTAL FEES ENCLOSED =  |                  |                  |             | \$ 1,400.00               |    |
|  |                  |                  |             | Amount to be:<br>refunded | \$ |
|  |                  |                  |             | charged                   | \$ |

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U.S. Application Number:  
(if known): Not Yet Assigned

International Application  
Number: PCT/EP2004/051307

Date: December 23, 2005

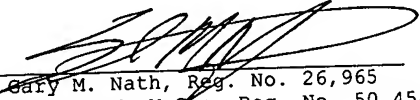
10/562137

- a. ☒ One check in the amount of \$ 1,400.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account Number: 14-0112 in the amount of \$ \_\_\_\_\_ to cover the above fees. (A duplicate copy of this sheet is enclosed.)
- c. ☒ The Commissioner is hereby authorized to charge any additional fees, which may be required, or credit any overpayment to Deposit Account Number: 14-0112.
- d. ☐ Fees are to be charged to a credit card ☐ WARNING: Information on this form may become public ☐ Credit Card Information should not be included on this form.  
☐ Provide credit card information and authorization on PTO-2038

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed to request that the application be restored to pending status.

Send All Correspondence To:

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Date: December 23, 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

10/562137  
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In re Application of:

VENNEMANN, et al.

Serial No.: Not Yet Assigned

Filed: December 23, 2005

International Appl. No.: PCT/EP2004/051307

International Filing Date: 30 June 2004 (30.06.2004)

Title: PYRROLODIHYDROISOQUINOLINES AS PDE10 INHIBITORS

TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

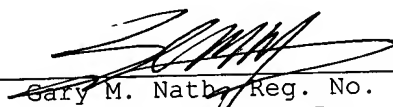
Sir:

Submitted herewith for filing in the U.S. Patent and Trademark Office is the following:

- 1) Application Data Sheet;
- 2) Transmittal Letter to U.S. Designated/Elected Office (DO/EO/US) Concerning filing under 35 U.S.C. 371;
- 3) International Publication Number: WO 2005/003129 A1, with PCT/ISA/210 (International Search Report); International Publication Date: 13 January 2005 (13.01.2005), which consists of 120 pages:
  - 1 page for the Cover Sheet,
  - 97 pages of Textual Specification,
  - 22 pages of 20 Claims,
  - 0 sheets of Drawings;
- 4) Preliminary Amendment with Appendices A and B to be Examined;
- 5) Executed Declaration and Power of Attorney;
- 6) PCT/IB/308 (First Notice Informing the Applicant of the Communication of the International Application);
- 7) PCT/IB/308 (Second and Supplemental Notice Informing the Applicant of the Communication of the International Application);
- 8) PCT/IB/304 (Notification concerning Submission or Transmittal of Priority Document);
- 9) PCT/RO/101 (PCT Request);
- 10) Check No.: 1377 in the Amount of \$ 1,400.00 for Basic Filing Fee, which includes the Search and Examination Fees (\$900), and for Additional Fee for over 100 sheets (\$500), as a Large Entity;
- 11) Postcard for Early Notification of the Serial Number Request.

Respectfully submitted,  
NATH & ASSOCIATES PLLC

By:

  
Gary M. Nath, Reg. No. 26,965  
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